Tutorial 1

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Exercise 1 (Java program basics)

1.

```
import java.util.*;

public class MyFirstJava{
    public static void main(String[] args){
        System.out.println("My name is Rivindu Ashinsa");
    }
}
```

2.

```
public class SecondProgram{

    public static void main(String[] args){
        int runningTotal  = 0;
        System.out.println("Variable value is : " + runningTotal);
        runningTotal += 5;
        System.out.println("Variable value is : " + runningTotal);
        runningTotal += 8;
        System.out.println("Variable value is : " + runningTotal);
        runningTotal += 2;
        System.out.println("Variable value is : " + runningTotal);
        runningTotal += 3;
        System.out.println("Variable value is : " + runningTotal);


    }
}
```

3.

```
4. public class MarkAverage {
5.     public static void main(String[] args) {
6.         float mark1 = 60;
7.         float mark2 = 66;
8.         float mark3 = 89;
9.         float result = (mark1+mark2+mark3)/3;
10.        System.out.println("Result is : " + result);
11.    }
12.}
13.
```

Exercise 2 (Handling input and output)

1, 2, 3, 4, 5, 6, 7

```
import java.util.*;

public class MyFirstJava{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);
        System.out.print("Enter your name : ");
        String name = input.nextLine();
        System.out.print("My name is "+name);
    }
}
```

Exercise 3 (Find the bugs) corrected code :

```
public class HelloWorld {
    public static void main(String[] args) {
    String firstName = "John";
    String secondName = "Brown";
    System.out.println("Hello " + firstName +"" + secondName + "");
    }
}
```

Exercise 4 (Menu)

```
public class Menu {
    public static void main(String[] args){
        System.out.println("********\n* MENU *\n********");
    }
}
```

Exercise 5 (Challenging questions)

1.

```
import java.util.Scanner;

public class Initials {
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the first name : ");
        String fName = input.nextLine();
        String nameFirstLetter = (fName.substring(0,1));
        System.out.println("Enter the second name : ");
        String lName = input.nextLine();
        String nameSecLetter = (lName.substring(0,1));
        System.out.print(nameFirstLetter);
        System.out.print(nameSecLetter);
    }
}
```

2.

```
3. import java.util.*;
4.
5. public class ToCm{
6.     public static void main(String[] args) {
7.         Scanner input = new Scanner(System.in);
8.         System.out.print("Enter the length in Meters (M) : ");
9.         float lengthInM = input.nextFloat();
10.        float result = lengthInM * 100;
```

```
11.         System.out.println("Result : " + result + " cm");
12.     }
13.}
```

3.

```
import java.util.*;

public class ToFaren {
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);
        System.out.print("Enter the temperature in Celcius : ");
        float tempInCel = input.nextFloat();
        float tempInFar = ((9/5) * tempInCel) + 32;
        System.out.println("Temperature in Ferenheit : " + tempInFar);
    }
}
```

4.

```
import java.util.*;
public class WageBill {
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);
        System.out.print("How many manual people : ");
        float manualCount = input.nextFloat();
        System.out.print("How many skilled people : ");
        float skilledCount = input.nextFloat();
        System.out.print("How many management people : ");
        float managementCount = input.nextFloat();
        float manual_bill = manualCount * 500;
        float skilled_bill = skilledCount * 700;
        float management_bll = managementCount * 800;
        float total_bill = manual_bill + skilled_bill + management_bll;
        double taxToPay = total_bill * 0.2;
        System.out.println("Total wage : " + total_bill);
        System.out.println("Tax to pay : " + taxToPay);

    }
}
```